

Lindsey Lake Tanker Truck Spill Incident Action Plan (IAP)

IAP #14

From 3/06/2019 @ 0700

To 3/08/2019 @ 0700



1. Incident Name Lindsey Lake Tanker Spill I-84, MP 54		OERS 2019-0334 NRC#1237421	2. Operational Period to be covered by IAP (Date/Time) From: 06 Mar 2019 / 0700 To: 08 Mar 2019 / 0700	IAP COVER SHEET
3. Approved by Incident Commander(s):				
<u>ORG</u>	<u>NAME</u>	<i>VERBAL APPROVAL GIVEN 3/5/19 / 1610</i> <i>[Signature] 3/5/2019 / 1638</i>		
FOSC (EPA)	Jeff Fowlow			
SOSC (DEQ)	Jamie Collins			
RP IC	Dave Borys			

INCIDENT ACTION PLAN

The items checked below are included in this Incident Action Plan:

- ☒ ICS 202 (Incident Objectives)
- ☐ ICS 202A (Command Direction)
- ☒ ICS 203 (Organization List) – OR – ICS 207-CG (Organization Chart)
- ☒ ICS 204 (Assignment Lists)
- ☒ ICS 205 (Communications Plan)
- ☒ ICS 206 (Medical Plan)
- ☒ ICS 207 (Org Chart)
- ☒ ICS 208 (Site Safety Plan) or Note SSP Location - Revised 17 Feb 2019
- ☒ Map / Chart
- ☒ Weather Forecast / Tides/Currents

Other Attachments

- ☒ ICS 232-OS (Resources at Risk Summary)
- ☐ Sampling and Analysis Plan
- ☐ Waste Management Plan – Revised 18 Feb 2019
- ☐ Inadvertent Discovery Plan for Cultural Resources
- ☐ Incident Transition Plan – 19 Feb 2019
- ☐ Backfill and Erosion Control Plan – 28 Feb 2019
- ☐

4. Prepared by:

Ross McMakin - NWFF

Date/Time

05 Mar 2019 / 1100

1. Incident Name:	2. Operational Period: (Date / Time)	INCIDENT OBJECTIVES ICS 202 - EPA
Lindsey Lake Tanker Truck Spill	From: 06 Mar 2019 / 0700 to: 08 Mar / 0700	
3. Incident Objective(s):		
<ol style="list-style-type: none"> 1. Ensure safety of citizens and response personnel 2. Return the impacted area to pre-spill conditions 3. Manage the response in a coordinated manner 4. Control and prevent the migration of contamination 5. Protect environment and cultural resources 6. Remove product from impacted areas 7. Keep the public and stakeholders informed 8. Characterize the extent of subsurface contamination and evaluate removal options 9. Minimize economic impacts 10. Transition from emergency response 		
4. Operational Period Command Emphasis. (Priorities, Key Discussions/Directions):		
<p>Objectives one and ten to be maintained throughout shut-down period. All other objectives to be followed and/or met during the next operational period to be determined by Unified Command depending on weather and safe site conditions.</p> <ol style="list-style-type: none"> 1. Before backfilling any excavation areas, explicit approval must be given by unified command 2. Install erosion control measures in Division B and C – silt fence to be installed on uphill side of Lindsey Creek with absorbents 3. Complete backfill of excavation area of Division C (south side of highway) 4. Complete snow removal between west side of excavation and Lindsey Creek 5. Remove contamination where analytical report showed impacted soil along shoreline 6. Conduct all sampling according to written sampling plan 7. Conduct all drilling and well completion according to drilling plan 8. Notify Unified Command immediately with any of the following critical information: <ol style="list-style-type: none"> a. If there are any rushes or surges of product to the road surface or lake b. Sheen is observed outside of the primary containment zone c. Contaminated, injured, or dead wildlife d. Any responder requires more than simple first-aid treatment e. Any wrecks or accidents along the roadway (whether related to the incident or not) f. Any VIP, elected officials, or media are observed in or near any of the work areas g. Any inadvertent cultural resource/archeological discovery 		
5. General Situation Awareness (Safety bullets, Weather, etc...):		
<p>All workers within 10 feet of water must be wearing a PFD. Reflective/high-visibility clothing must be worn on roadway and shoulders</p> <p>All workers and people in any areas of contamination must be in at least Level-D PPE and increase to Level-C as necessary.</p> <p>Workers should dress warmly, and monitor self and peers for symptoms of hypothermia. Given the extra layers of clothing, workers should properly hydrate throughout the day to avoid dehydration.</p> <p>Roadway surfaces, lake banks, and wetlands are wet, icy and/or covered in snow; there are a number of very slick rocks. Workers should be mindful of very slippery conditions and avoid slips, trips, and falls.</p> <p>Exercise safe work practices while working along the highway. Traffic control will take place on both east bound and west bound sides of highway. Work facing traffic whenever possible. Maintain awareness of surroundings at all times. Watch for heavy equipment, do not enter the swing radius of an excavator without eye contact and a signal from the operator.</p>		
Approved Site Safety Plan Located at: ICP		
6. Prepared By: (PSC)	(Date / Time)	
Name: Ross McMakin – NWFF	Signature:	
INCIDENT OBJECTIVES		ICS 202 - EPA (Rev 02/10)

1. Incident Name:		2. Operational Period (Date / Time)		ORGANIZATION ASSIGNMENT LIST ICS 203 - EPA	
Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700			
3. INCIDENT COMMANDER / COMMAND STAFF:		7. OPERATION SECTION:			
Incident Commander(s)	Jeff Fowlow, EPA Jamie Collins, OR OSC Dave Borys, RPIC	Chief		Shiloh McConnel, NWFF	
Deputy		Deputy			
Safety Officer	Chuck Carver, NWFF	Deputy			
Information Officer	Mark MacIntyre, EPA Laura Gleim/Jennifer Flynt, OR DEQ	Staging Area Manager			
4. AGENCY REPRESENTATIVES:		Branch 1			
OR DOT	Teresa Nowicki, Charles Schwartz	Deputy			
OPRD	Mark Stevenson	Division/Group	A	On-water Ops – Seth Williams	
		Division/Group	B	North side of Hwy – Jamie Redom	
		Division/Group	C	South Side of Hwy – Glenn Thor	
5. PLANNING SECTION:		Branch 2			
Chief	Ross McMakin, NWFF	Director			
Deputy		Deputy			
Resources Unit	Steve Lemelin, NWFF	Division/Group			
Situation Unit		Division/Group			
Environmental Unit	Chris Richardson / Tracy England	Division/Group			
Deputy Environmental	Don Pettit, ODEQ	Division/Group			
Demobilization Unit		Branch 3			
Technical Specialist	Tim Shaw, NWFF	Director			
Technical Specialist	Darrel Whitmore, NWFF	Deputy			
		Division/Group			
		Division/Group			
6. LOGISTICS SECTION:		8. FINANCE/ADMINISTRATION SECTION:			
Chief	Steve Lemelin, NWFF	Division/Group			
Deputy	Ross McMakin, NWFF	Division/Group			
		Chief			
a. Support Branch		Time Unit			
Director		Procurement Unit			
Supply Unit		Compensation/Claims Unit			
Facilities Unit		Cost Unit			
Ground Support Unit		NOTES:			
Transportation Unit					
b. Service Branch					
Director					
Communications Unit					
Medical Unit					
Food Unit					
9. Prepared By:				(Date / Time)	
Name: Ross McMakin - NWFF		Signature:			
ORGANIZATION ASSIGNMENT LIST				ICS 203 - EPA (Rev 02/10)	

1. Incident Name: Lindsey Lake Tanker Truck Spill		2. Operational Period: (Date / Time) From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700		ASSIGNMENT LIST ICS 204 - EPA	
3. Branch: Division A – On Water		4. Division/Group/Staging: ODOT Weigh Station			
5. Operations Personnel:					
ICS Position	Name	Affiliation	Contact # (s)		
Operations Section Chief:	Shiloh McConnell	NWFF	541-231-2619		
Branch Director:					
Division/Group Supervisor/STAM:	Seth Williams	NWFF	541-745-8288		
Resources Assigned: "X" indicates 204a attachment with additional instructions					
Strike Team/Task Force/ Resource Identifier	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	
NWFF Technicians	Seth Williams	541-745-8288	4		
7. Work Assignments:					
Check and maintain hard boom in place and deploy more boom if necessary					
Check and replace soft boom as necessary					
Provide boat transportation as needed to resource trustee representatives (NOAA/USFWS/ODFW), air monitoring crews and sampling crews					
Assist Land Operations Group as needed with flushing and recovery operations					
8. Special Instructions:					
PFDs are to be worn at all times, while on or within 10' of water (including ice covered water). Crews should be very aware of low water temperatures. Employ the buddy system while on or near the water. Immediately report any sighting of dead or injured fish or wildlife to supervisor, or any cultural or historic artifacts. Reflective vests are required to be worn when on or near the highway. Hard hats must be worn while any over-head operations are ongoing. ***Full-face respirators with Super defender cartridges MUST be worn when working in areas that exceed 10ppm total VOC***					
9. Communications (radio and/or phone contact numbers needed for this assignment):					
Name/Function	Radio: Freq./System/Channel	Phone	Cell/Pager		
All responders	Channel 1				
Emergency Communications: 911 and Safety Officer: 541-740-3272					
10. Prepared by: (PSC) (Date / Time)		11. Reviewed by: (PSC) (Date / Time)		12. Reviewed by: (OPS) (Date / Time)	
Name: Ross McMakin – NWFF 05 Mar 1100		Name:			

1. Incident Name:		2. Operational Period: (Date / Time)		ASSIGNMENT LIST ICS 204 - EPA	
Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700			
3. Branch:		4. Division/Group/Staging:			
Division B – North side of Hwy		ODOT Weigh Station			
5. Operations Personnel:					
ICS Position	Name	Affiliation	Contact # (s)		
Operations Section Chief:	Shiloh McConnell	NWFF	541-231-2619		
Branch Director:					
Division/Group Supervisor/STAM:	Jamie Redom	NWFF	509-759-5773		
Resources Assigned: "X" indicates 204a attachment with additional instructions					
Strike Team/Task Force/ Resource Identifier	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	
WFS Technicians	Jamie Redon	509-759-5773	8		
7. Work Assignments:					
Employ absorbents to recover any fuel or oily water that accumulates at collection point at Lindsey Lake. Employ best tactics to maximize recovery of oil and minimize recovery of water. If time permits, utilize long-reach crane to recover any stockpiled solid waste (sorber or sorber boom) from Lindsey Lake shoreline to waiting tub truck. Dispose of solid waste in accordance with all applicable Federal and State regulations.					
Check and maintain soft boom and replace if needed along shoreline					
Maintain absorbents in the cut trench mid-slope, approximately 1-2 feet and fill with absorbent boom					
Utilize boats to the lake to assist with on-water recovery of contaminants.					
Implement erosion control and water quality protocols in backfilling plan prior to backfilling					
Possible tree removal if necessary. Exercise safe practices while working around any tree removal operations					
8. Special Instructions:					
PFDs are to be worn at all times, while on or within 10' of water (including ice covered water). Crews should be very aware of low water temperatures. Employ the buddy system while on or near the water. Immediately report any sighting of dead or injured fish or wildlife to supervisor. Be cautious of slippery slopes and rocky terrain. ***Full-face respirators with Super defender cartridges MUST be worn when working in areas that exceed 10ppm total VOC***					
9. Communications (radio and/or phone contact numbers needed for this assignment):					
Name/Function	Radio: Freq./System/Channel	Phone	Cell/Pager		
All responders	Channel 1				
Emergency Communications: 911 and Safety Officer: 541-740-3272					
10. Prepared by: (PSC) (Date / Time)		11. Reviewed by: (PSC) (Date / Time)		12. Reviewed by: (OPS) (Date / Time)	
Name: Ross McMakin – NWFF 05 Mar 2019 1100		Name:			

1. Incident Name:		2. Operational Period: (Date / Time)		ASSIGNMENT LIST ICS 204 - EPA	
Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700			
3. Branch:		4. Division/Group/Staging:			
Division C – South Side of Hwy		ODOT Weigh Station			
5. Operations Personnel:					
ICS Position	Name	Affiliation	Contact # (s)		
Operations Section Chief:	Shiloh McConnell	NWFF	541-231-2619		
Branch Director:					
Division/Group Supervisor/STAM:	Glenn Thor	NWFF	541-609-1969		
Resources Assigned: "X" Indicates 204a attachment with additional instructions					
Strike Team/Task Force/ Resource Identifier	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	
Technicians	Rariden		3		
7. Work Assignments:					
Maintain a safe work zone at all times. Coordinate with traffic control to ensure safe entrance and exit of vehicles and equipment from the highway.					
Maintain deployment of soft boom along east and west sides of Lindsey Creek					
Complete backfilling operations					
8. Special Instructions:					
PFDs are to be worn at all times, while on or within 10' of water (including ice covered water). Crews should be very aware of low water temperatures. Employ the buddy system while on or near the water. Immediately report any sighting of dead or injured fish or wildlife to supervisor. Be cautious of slippery slopes and rocky terrain. ***Full-face respirators with Super defender cartridges MUST be worn when working in areas that exceed 10ppm total VOC***					
9. Communications (radio and/or phone contact numbers needed for this assignment):					
Name/Function	Radio: Freq./System/Channel	Phone	Cell/Pager		
	Channel 1				
Emergency Communications: 911 and Safety Officer: 541-740-3272					
10. Prepared by: (RESL) (Date / Time)		11. Reviewed by: (PSC) (Date / Time)		12. Reviewed by: (OPS) (Date / Time)	
Name: Ross McMakin – NWFF 05 Mar 2019 1100		Name:			

INCIDENT RADIO COMMUNICATIONS PLAN	1. Incident Name:		2. Operational Period: (Date / Time)		INCIDENT RADIO COMMUNICATIONS PLAN ICS 205 - EPA	
	Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 March 2019 / 0700			
	3. Basic Radio Channel Use:					
	SYSTEM / CACHE	CHANNEL	FUNCTION	FREQUENCY	ASSIGNMENT	REMARKS
	Motorola	1	All staff	164.4500	All staff	Keep radio communication short, concise, and professional.
4. Prepared by: (Communications Unit)					(Date / Time)	
Name: Ross McMakin – NWFF 08 Mar 2019 0800			Signature:			

ICS 205 – EPA

1. Incident Name:		2. Operational Period: Date / Time)		INCIDENT COMMUNICATIONS PLAN ICS 205A - EPA
Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700		
3. Communication Contact List:				
NAME	POSITION	PHONE NUMBER	AGENCY / AFFILIATION	EMAIL ADDRESS
Jeffrey Fowlow	Federal IC	206-225-5582	EPA	Jeffrey.Fowlow@epa.gov
Jamie Collins	State IC	541-3213124	ODEQ	Jamie.Collins@state.or.us
Dave Borys	RP IC	360-719-0682	HydroCon	roberth@hydroconllc.net
Chuck Carver	SO	541-740-3272	NWFF	Chuck_Carver@nwffenviro.com
Jennifer Flynt	PIO		ODEQ	
Laura Gleim	PIO		ODEQ	
Mark MacIntyre	PIO		EPA	
Scott Smith	LNO		ODEQ	
Allison Kinney	ENV	319-936-5369	BergerABAM	
Tracy England	EU	541-213-8324	ODEQ	Bryn.Thoms@state.or.us
Bryon Alexander	EU Tech	208-970-0564	EPA/E&E	
Faye Walstead-Keelan	EU Tech	503-741-0383	EPA/E&E	
Shiloh McConnell	OPS SC	541-231-2619	NWFF	Shiloh_McConnell@nwffenviro.com
Glenn Thor	OPS	541-609-1969	NWFF	
Alex Plawman	OPS	541-231-0445	NWFF	
Steve Lemelin	LSC	541-231-2624	NWFF	Steve_Lemelin@nwffenviro.com
Arturo Gutierrez	OPS	509-930-1688	WFS	
Cesar Monroy	OPS	541-243-2977	NWFF	
Charles Schwerz	OPS	503-880-9074	OR DOT	
Chris Daschel	OPS	503-891-4128	HydroCon	
Clive Bailey	OPS	509-985-7570	WFS	
Daniel Holmes	OPS		NRC	
Josh Rairden	OPS	541-453-5896	K&B	
Juan Diaz	OPS	509-406-9118	WFS	
Kevin Rairden	OPS	541-602-9166	K&B	
Robert Jones	OPS		WFS	
Ross McMakin	PSC	541-231-2618	NWFF	Ross_McMakin@nwffenviro.com
Seth Williams	OPS	541-745-8288	NWFF	
Stan Jensen	OPS	206-201-2014	NRC	
Jamie Redom	OPS	509-759-5773	WFS	
4. Prepared by:			(Date / Time)	
Name: Ross McMakin		Signature:		

1. Incident Name:		2. Operational Period: (Date / Time)		MEDICAL PLAN ICS 206 - EPA			
Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700					
3. Medical Aid Stations:							
Name		Location		Contact #	Paramedics On Site (Y/N)		
ODOT Weigh Station		ODOT Weigh Station on North side of I-84 just East of the spill site		None	N		
4. Transportation:							
Ambulance Service		Address		Contact #	Level of Service		
					ALS	BLS	
Hood River FD		Hood River, 5 miles East of spill site		911	x	x	
5. Hospitals:							
Hospital Name	Address	Contact #	Travel Time		Burn Center (Y/N)	Helipad (Y/N)	Trauma Center (Y/N)
			Air	Ground			
Providence Memorial – Hood River	811 13 th Street, Hood River, OR	541-436-4500		x	x	x	x
Mid-Columbia Medical Center	1700 E 19 th Street, the Dalles, OR	541-295-1111		x	x	x	x
6. Special Medical Emergency Procedures:							
Due to extreme cold and weather conditions, hypothermia is a concern. Dehydration is also a concern so personnel must stay hydrated. In the event a person falls into the water, evacuate them to the ICP immediately, and place them in a warm, dry area; remove wet clothing to prevent progression of hypothermia.							
7. Prepared by: (PSC)		(Date / Time)		8. Reviewed by: (Safety Officer)		(Date / Time)	
Name: Ross McMakin – NWFF							
MEDICAL PLAN				ICS 206 – EPA (Rev 02/10)			

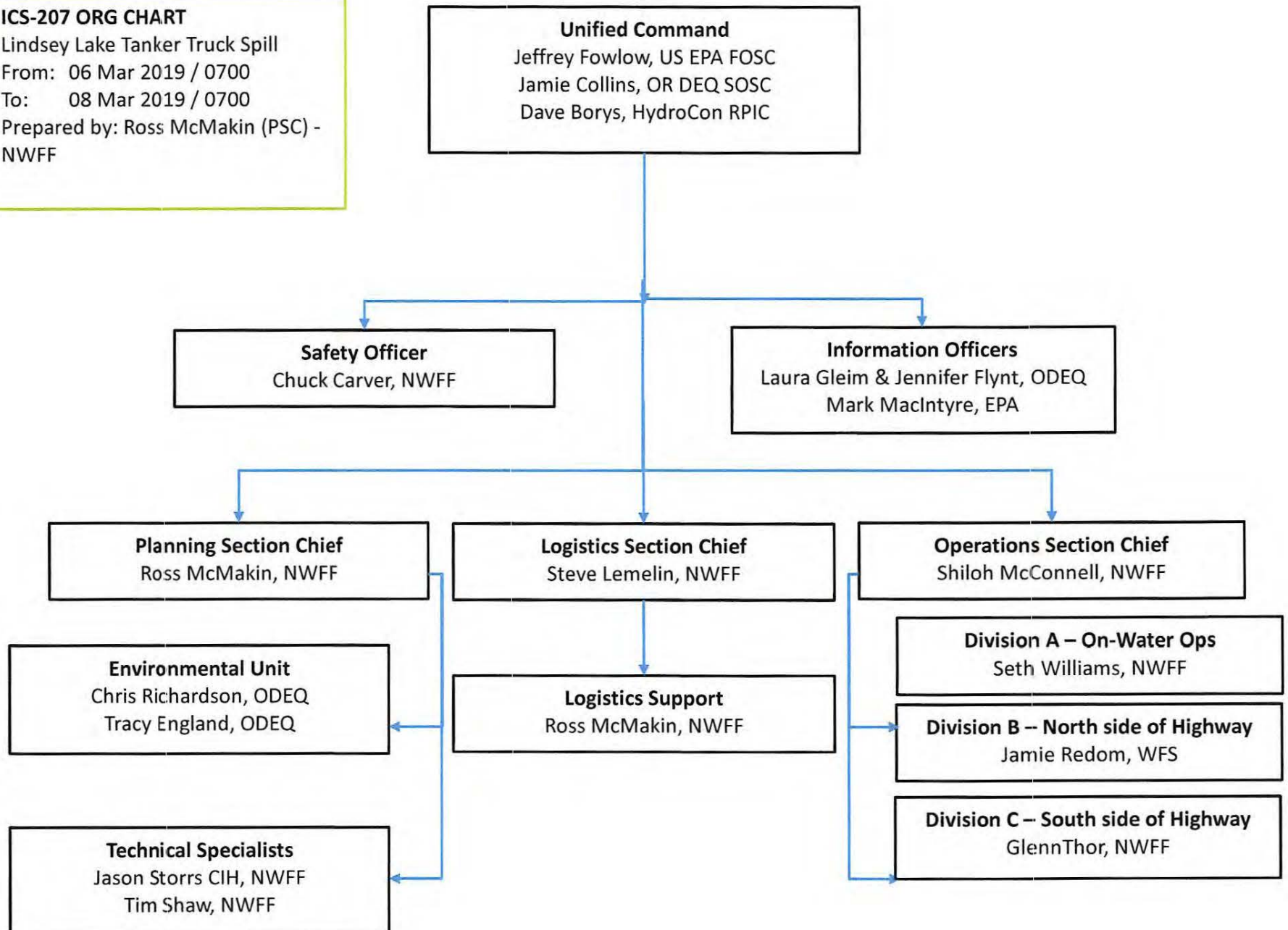
ICS-207 ORG CHART

Lindsey Lake Tanker Truck Spill

From: 06 Mar 2019 / 0700

To: 08 Mar 2019 / 0700

Prepared by: Ross McMakin (PSC) -
NWFF



Incident Name:		2. Operational Period: (Date / Time)		DAILY MEETING/ CONFERENCE CALL SCHEDULE ICS 230 - EPA	
Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700			
3. Meeting Schedule (Commonly-held meetings are included) :					
Date/ Time	Meeting Name	Purpose	Attendees	Location	
Daily 7:30am	OPERATIONS Briefing	30-minutes Present the IAP to responders; brief oncoming ops section on daily operations	PSC Facilitates All Command & General Staff, all Operations staff	Viento Park ICP Briefing tent	
Second day of Operational Period 10:00am	Unified Command Objectives Meeting	Develop Objectives	U/C, Plans	DEQ Command Trailer	
Second Day of Operational Period 10:30am	COMMAND & GENERAL STAFF Meeting	30-minutes UC to provide updates, decisions and management directives to command & General Staff	PSC Facilities All Command & General Staff SITL	Viento Park ICP Briefing	
Second day of Operational Period 2:30pm	PLANNING Meeting	45-minutes Define incident objectives, strategies and tactics, and identify resource needs	PSC Facilities All Command & General staff, Resources, Situation	Viento Park ICP Briefing Tent	
4. Special and Other Meetings:					
Daily 1:00pm	All IAP Docs Due	All documents for the IAP are due to ICP – U/C to review draft IAP	All Staff	Ross_McMakin@nwffenvi ro.com	
Daily 6:00pm	Daily operations terminate	All operations terminate, ICP closes	All staff	N/A	
5. Prepared by: (PSC)				(Date / Time)	
Name: Ross McMakin – NWFF			Signature:		
DAILY MEETING SCHEDULE				ICS 230 - EPA (Rev 02/10)	

1. Incident Name:		2. Operational Period: (Date / Time)		RESOURCES AT RISK SUMMARY ICS 232-OS
Lindsey Lake Tanker Truck Spill		From: 06 Mar 2019 / 0700 to: 08 Mar 2019 / 0700		

3. Environmentally-Sensitive Areas and Wildlife Issues

Overall Objectives of Response – (#1) Safety of public and responders, (#2) Contain and recover diesel fuel against shoreline at seepage point, (#3) Protect wetlands and natural resources in Lindsey Lake and Lindsey Creek, (#4) Prevent fuel from moving into Columbia River

Site #	Priority	Site Name and/or Physical Location	Site Issues
Hwy MP 53.8 Columbia River Mile 158.8	1	Lindsey Lake (AKA Lindsey Pond) Source Control – Install containment boom against shoreline in area of product seepage, line with adsorbent boom to capture oil and keep oil out of lake. Replace sorbent boom as indicated by rate of oil saturation.	Length: 2,500' Boom – B2 (Contractor Boom) or equivalent. Sweeps or sorbent boom backing B2 to adsorb oil until small skimmer or vacuum truck can be placed/operated. Objective: Containment & Recovery – Keep oil contained to limit impacts to Lindsey Lake. Resource concerns: Sensitive nesting species, waterfowl and salmon concentrations and habitat.
B 158.8L	2	Lindsey Lake (Cascade Locks, OR)	Length: 300' Boom – B2 (Contractor Boom) or equivalent. Use 100' in "V" shape within Lindsey Lake at culvert through railway levee. Use additional 200' of boom in "V" shape in Columbia River on opposite side of levee as secondary containment for river. Objective: Exclusion – Keep oil in Lindsey Lake from reaching Columbia River by blocking outfall/inlet to lake. Resource concerns: Sensitive nesting species, waterfowl and salmon concentrations and habitat. Fish passage must be maintained by keeping boom at distance from passage culvert.

Narrative

Habitat Concerns: Islands, sloughs and wetlands provide critical resting and feeding areas for wildlife and serve as important rearing areas for resident fish and juvenile salmonids. Various deep and shallow water river habitats support a reported 48 species of freshwater fish including species important to sport fishery such as trout, walleye, bass, sunfish, catfish and sturgeon. Additionally, numerous other small generally shallow water species such as dace, shiner, mosquitofish stickleback and sculpins occur here and serve as important food sources for birds, larger fish and other wildlife. Their occurrence in shallow water makes them more susceptible to the toxic effects of petroleum. Riparian habitats are heavily used by wildlife including river otter, beaver and raccoon.

Wildlife Concerns: This area is located on a major artery of the Pacific Flyway used primarily in October through February. Large numbers of waterfowl present, Pied-billed Grebe, Double-crested Cormorant, Canada Geese, Blue, Green, and Cinnamon Winged Teal, Mallard, Gadwall, Northern Shoveler, Redhead, ring-necked Duck, Lesser Ruddy Duck, Common Merganser, Lesser Scaup, Bufflehead, American Wigeon, Ring-billed Gulls, American Coot, Blue Herons and American White Pelicans are common in Fall. Bald Eagles are in the area and will prey on injured waterfowl. River otters, mink and beaver are present and vulnerable to oil exposure.

Fish Concerns: Sloughs and impoundments are critical rearing habitat for both salmonids and resident fish. Adult and juvenile Fall Chinook, Coho and Steelhead runs are passing through the area in September and early October. Overwintering juvenile Coho and Chinook will be using the nearshore and backwater areas.

Threatened & Endangered Species Concerns: Listed stocks include: Upper Columbia River Spring [FE], Snake River Spring, summer, and Fall Chinook [FT], Snake River Sockeye salmon [FE] and upper Columbia River steelhead [FT], Snake River Steelhead [FT]. American White Pelican [SE]

Juvenile coho, winter steelhead, and Redband trout are present in Lindsey Creek which enters Lindsey Lake (pond) at natural delta to west of spill seepage front on bank against the highway.

Report any observations of impacted fish, waterfowl or other wildlife to Operations Section Chief, ODFW (Jon Germond @ 503-947-6088) and USFWS (Mike Szumski @ 541-867-4550) immediately upon discovery.

4. Archaeo-cultural and Socio-economic Issues

Site #	Priority	Site Name and/or Physical Location	Site Issues
N/A	1	Sensitive tribal cultural sites	To be identified through consultation with local tribes and the Oregon State Historical Preservation Office . Initial consultations with SHPO and all four Federal treaty tribes with interests in the region indicated no resources are present in the immediate vicinity of the site; see below. Notifications to the tribes and SHPO were made between 2/12/19 and 2/13/19.
B-155.7L and others	1	Tribal fishing sites (numerous along Oregon shoreline) from site to Bonneville Dam	Fishing from scaffolds along the river and use of In-Lieu Sites (such as the Wyeth In-Lieu Site at RM 155.7L) have the potential for impacts from river operations (including boat launching with permission) during the response. CRITFC has been notified and continues on the response in a liaison capacity.

N/A	2	Columbia River Gorge National Scenic Area	Scenic, cultural, recreational, and natural resources. Coordination with CRGNSA initiated. Office closed due to inclement weather, left message with explanation of resource protection efforts and to call back with any questions or information (541-308-1700)
B-145.4-N	2	Bonneville Dam Fishway and USACE assets in area	Fishery resources. Notification to USACE made 2/11/2019
N/A	2	Bonneville State park, Bonneville, OR	Public recreation. Notification to Oregon State Parks made 2/12/2019
B-146.2L-N	2	Cascade Hatchery (Eagle Creek Hatchery) USFWS Facility	Notification to manager 503-801-3713 (advisory notification completed) 541-867-4550
B-150.8L-N	2	City of Cascade Locks Water Intake	Call Public Works Foreman at 541-386-2711 2616 (advisory notification completed via Sheriff's Emergency Line)
N/A	2	Oregon State Parks Department	Contact with OR State Parks made 2/12/2019 (Gary Curtis 541-388-6204)

Narrative

Numerous culturally sensitive areas exist along the shorelines of the region. Tribal notifications have been made and coordination with Columbia River Intertribal Fisheries Commission and the Oregon State Historic Preservation Office is ongoing. Dennis Griffin with OR-SHPO has stated that there are no known archaeological sites in the response area. Advises to proceed, with due caution for unknown resources. See Inadvertent Discovery Plan for Cultural Resources, attached with this document.

5. Prepared by: (Environmental Unit Leader)

Don Pettit, Dep EUL

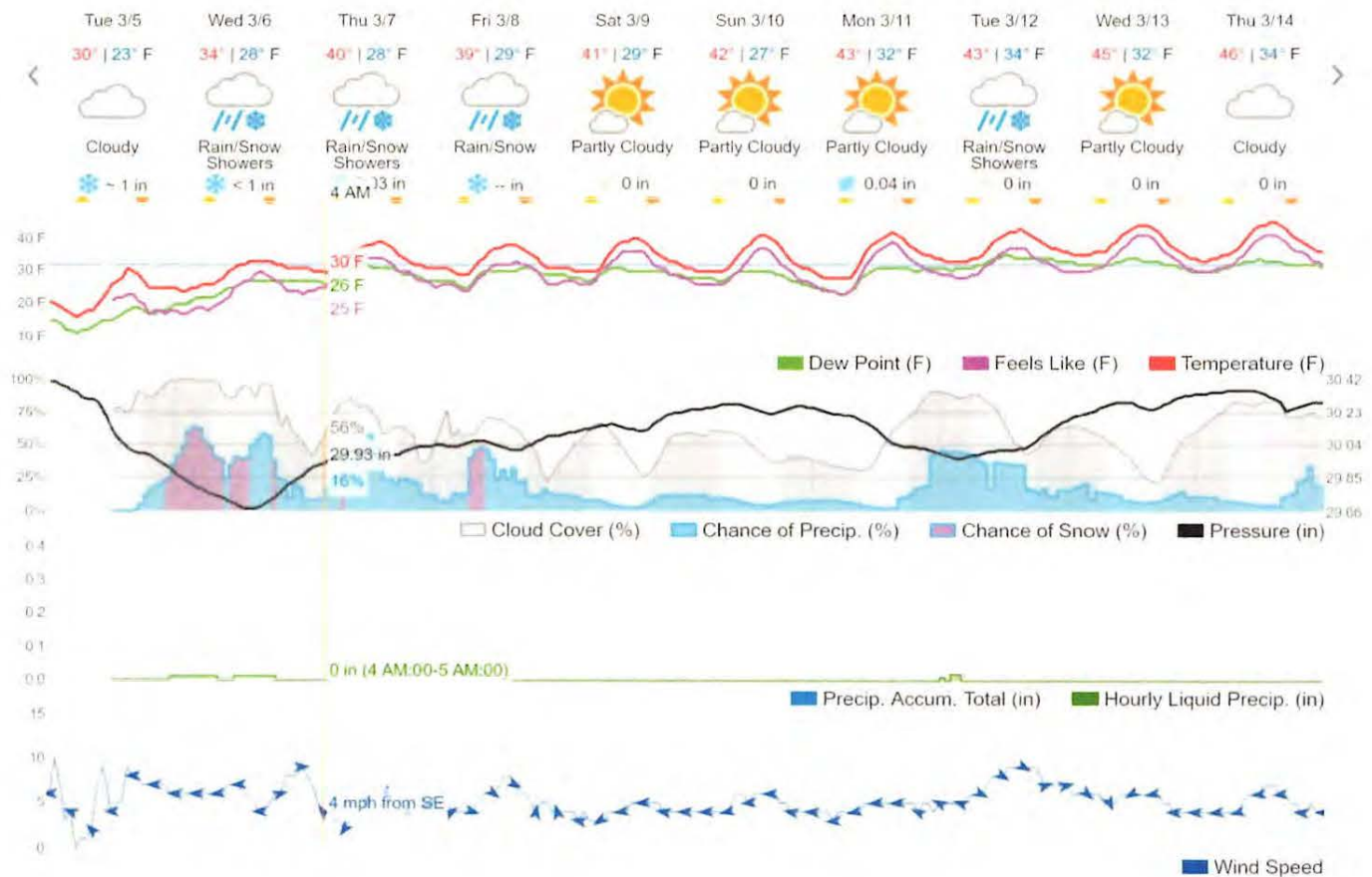
Date/Time

2/14/2019 1500

RESOURCES AT RISK SUMMARY

ICS 232-OS

Weather Report for 3/06/2019



...CONTINUED COLD TODAY...

...SNOW THREAT TONIGHT AND WEDNESDAY...

.DISCUSSION...Surface high pressure remains entrenched over the Columbia Basin through Wednesday. Offshore low-level flow will maintain the well below-normal temperatures with windy conditions west of Cascade Locks. A weather system is expected to move into Southwest Oregon late today and then spread north to northeast this evening and tonight. Light snow is expected in the Central Gorge beginning this evening and continuing into Wednesday. Accumulations of an inch or two will be possible by Wednesday morning.

.REST OF TODAY...

Sky/weather.....Cloudy in the morning then mostly cloudy.

Chance of pcpn.....0 percent.

Max temperature.....30-33.

Min humidity.....65-70 percent.

Dewpoint.....14 increasing to near 20 in the afternoon.

Surface winds.....East 5 to 10 mph.

CEILING (KFT).....Around 4000 ft in the morning then 6000 to 8000 ft in the afternoon.

Visibility.....Greater than 6 miles.

Snow accumulation...0

.TONIGHT...

Sky/weather.....Cloudy. A chance of flurries in the evening, then occasional snow after midnight.

Chance of pcpn.....80 percent.

Min temperature.....22-25.

Max humidity.....90-95 percent.

Dewpoint.....near 20.

Surface winds.....East 3 to 7 mph.

CEILING (KFT).....6000 to 8000 ft, lowering to 2500 ft by midnight. Ceilings as low as 1000 to 1500 ft late.

Visibility.....6 miles early evening then 3-5 miles in light snow. Visibility as low as 1 mile late.

Snow accumulations..Up to 2 inches.

.WEDNESDAY...

Sky/weather.....Cloudy. Occasional snow in the morning then snow showers.

Chance of pcpn.....90 percent.

Max temperature.....33-37.

Min humidity.....70-75 percent.

Dewpoint.....Lower 20s, increasing to upper 20s.

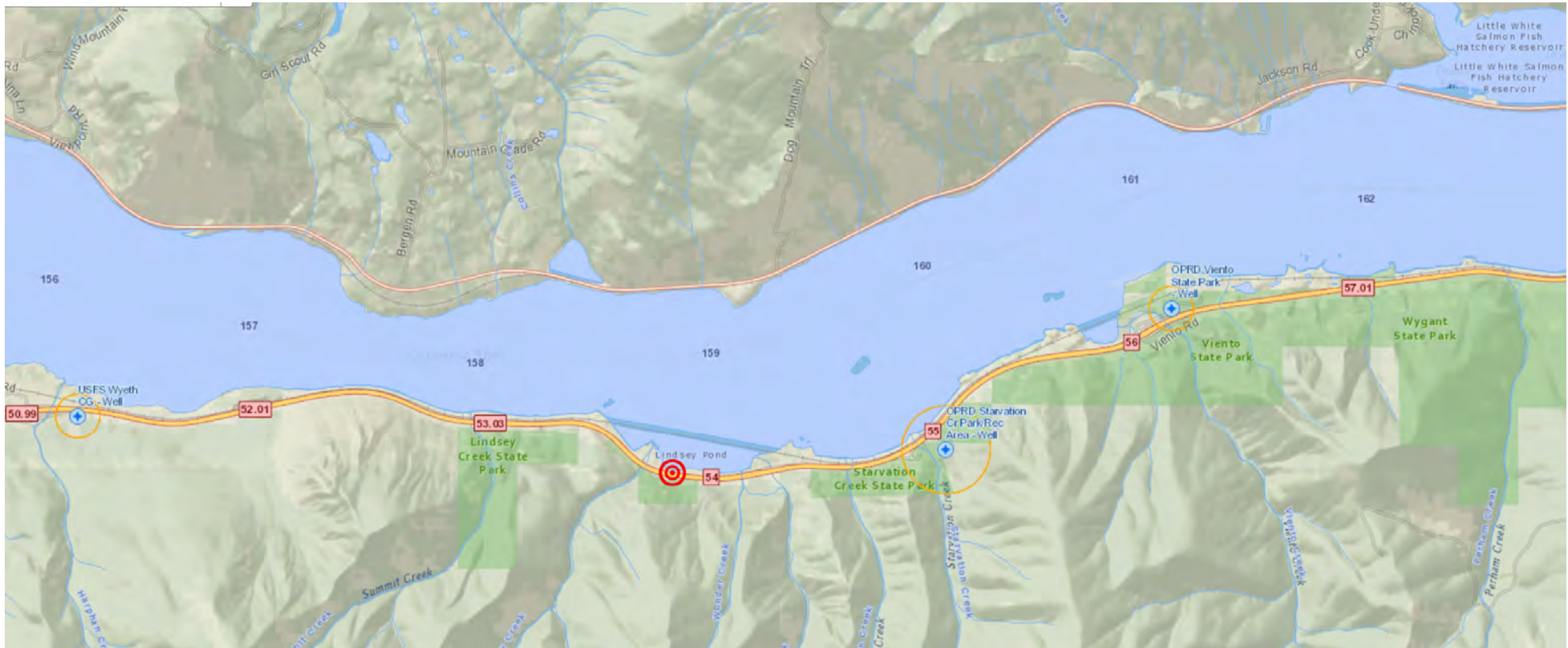
Surface winds.....East 4 to 9 mph, becoming light and variable in the afternoon.

CEILING (KFT).....1000 to 1500 ft in the morning then 2500 to 3500 ft in the afternoon.

Visibility.....1-3 miles in the morning then greater than 6 miles.

Snow accumulation...Additional inch or less.

MAP 1 – Lower Columbia River – River Mile 159
Lindsey Lake



MAP 2 – Lower Columbia River – River Mile 159
Lindsey Lake Booming Strategy



Inadvertent Discovery Plan for Cultural Resources

For the duration of the response, or until replaced by an updated version, this plan will be followed to identify, report and protect potential cultural materials which are discovered during the course of emergency response operations being conducted to protect human health and the environment. This does NOT include significant ground disturbing activities involving excavation, dredging, drilling, etc. which would be covered by a project specific plan. This plan also is also not intended to protect sites in areas where cultural resources have already been documented which should have site-specific project plan to protect cultural resources.

This Inadvertent Discovery Plan (IDP) should be followed if cultural materials, including human remains, are encountered during any field or site activities including but not limited to: excavation, berming, under/overflow dam construction, boom deployment, development of staging areas, access paths/routes, or during reconnaissance activities such as SCAT Surveys.

When to stop work:

Construction work or other ground disturbing activities may uncover previously unidentified Native American or Euro-American artifacts. Work must stop when the following types of artifacts and/or features are encountered:

Native American artifacts may include (but are not limited to)-

- ☐ Flaked stone tools (arrowheads, knives scrapers etc.);
- ☐ Waste flakes that resulted from the construction of flaked stone tools;
- ☐ Ground stone tools like mortars and pestles;
- ☐ Layers (strata) of discolored earth resulting from fire hearths. May be black, red or mottled brown and often contain discolored cracked rocks or dark soil with broken shell;
- ☐ Human remains;
- ☐ Historical structural remains- wooden beams, post holes, fish weirs.
- ☐ Petroglyphs (carvings in stone) or petrographs (drawings in stone).

Euro-American artifacts may include (but are not limited to)-

- ☐ Glass (from bottles, vessels, windows etc.);
- ☐ Ceramic (from dinnerware, vessels etc.);
- ☐ Metal (nails, drink/food cans, tobacco tins, industrial parts etc.);
- ☐ Building materials (bricks, shingles etc.);
- ☐ Building remains (foundations, architectural components etc.);
- ☐ Old Wooden Posts, pilings, or planks (these may be encountered above or below water);
- ☐ Remains of ships or sea-going vessels, marine hardware etc.;
- ☐ Old farm equipment may indicate historic resources in the area.
- ☐ Even what looks to be old garbage could very well be an important archaeological resource;

When in doubt, call it in!

Protocol for coordination in the event of inadvertent discovery:

- In the event of an inadvertent discovery of items suspected to be cultural materials, including possible human remains, stop all work immediately in the vicinity of the find. Notify your Division/Group Supervisor or Task Force Leader as soon as possible.
- The area should be secured and protected. A 30 meter buffer should be placed around the discovery with work being able to proceed outside of this buffered area unless additional cultural materials are encountered.
- The Operations Section Chief, the Planning Section Chief, the Tribal On-Scene Coordinator (if one has been established within the ICS) and the Liaison Officer are to be notified immediately by the Division/Group Supervisor or Task Force Leader. The Planning Section Chief will direct his staff to notify the State Historic Preservation Office (SHPO) and the US Dept. of the Interior or designated representative (U.S. Fish & Wildlife), if present within the ICS established for the incident.

If possible human remains are encountered, the Oregon State Police, Oregon Commission on Indian Services (CIS), SHPO, and appropriate Tribes will also be notified.

- Oregon State Police: Chris Allori 503-731-4717
- Oregon Commission on Indian Services: Karen Quigley 503- 986-1067
- Appropriate Tribes: As designated by CIS
- SHPO: Dennis Griffin 503-986-0674, John Pouley 503-986-0675, or Matt Diederich 503-986-0577.

□ No work may resume within the secured area until consultation with the SHPO has occurred and a professional archaeologist is able to assess the discovery.

□ If human remains are encountered, do not disturb them in any way. *Do not call 911*. Do not speak with the media. Secure the location. Do not take Photos. The location should be secured and work will not resume in the area of discovery until all parties involved agree upon a course of action.

□ A professional archaeologist may be needed to assess the discovery; they will consult with SHPO and appropriate Tribal Governments to determine an appropriate course of action.

□ Archaeological excavations may be required after the emergency response phase of the incident. This is handled on a case by case basis by the professional archaeologist and project manager, in consultation with SHPO and appropriate Tribes.

Proceeding with Construction or other Ground Disturbing Activities

- Construction can proceed only after the proper archaeological inspections have occurred and clearance to proceed is obtained. This requires close coordination with SHPO and the Tribes.
- After an inadvertent discovery, some areas may be specified for "**Close Monitoring**" or "**No Work Zones**".

Any such areas will be identified by the professional archaeologist, and relayed to the Operations Section Chief and the Planning Section Chief, who will relay to appropriate Division/Group Supervisors and/or Task Force Leaders.

□ In coordination with the SHPO or professional archaeologist, the Operations Section Chief will verify these identified areas and be sure that the areas are clearly demarcated in the field, as needed.

Lindsey Lake Tanker Spill (I-84, MP 54)

2/12/2019

Approved:

EPA FOSC: JEFFREY FOWLOW




2/17/19

DEQ SOSC: JAMIE COLLINS



2/17/2019
1329

RP IC (Space Age Fuels): 

Rob. Hensberger

2/17/19

Lindsey Lake Tanker Truck Spill

Incident Management Transition Plan

The emergency phase of the response is ongoing, and a large amount of work remains. As we continue to work toward our objective of returning the impacted area to its pre-incident condition, the following plan describes the immediate path forward, which will end in the culmination of the emergency response phase and the transition to removal and monitoring of remaining contamination. Regardless of the title attached to any particular phase of the response, the response to the Lindsey Lake Tanker Spill will continue to be managed under the Emergency Response ("Spills") program of the Oregon Department of Environmental Quality according to Chapter 340-142 of the Oregon Administrative Rules and Oregon Revised Statutes Chapters 466 and 468B.

Unified Command is currently managing the response along six lines of effort:

1. Cleanup of diesel fuel and contaminated snow and ice from eastbound lanes of I-84, south road shoulder and soil to south of highway (current Division C)
2. Cleanup of contaminated snow and ice from westbound lanes of I-84 and north shoulder (part of current Division B; immediate zone extending approx. 1-2' from the edge of the roadway)
3. Cleanup of contaminated snow and ice from highway embankment, extending from road shoulder to and including the shoreline of Lindsey Lake (also part of current Division B)
4. Assessment & removal of impacted soil and rock on both the north and south side of the highway (current Divisions B and C)
5. Assessment & removal (if possible) of contaminated soil and rock and all remaining free product from beneath roadway and adjoining shoulder area
6. Continuing cleanup of Lindsey Lake (current Division A)

For 1-3, work will be considered complete when:

1. All contaminated snow is removed through a combination of flushing and recovery, heating contaminated snow, and/or excavation, and removal of the snow
2. No product is seen in, on, or near the roadway and Lindsey Lake or Lindsey Creek
3. The product is deemed to be non-mobile and non-recoverable

For 4, work will be considered complete when:

1. Soil, subsurface soil, and sediment sampling is conducted according to a plan approved by Unified Command and
2. Contaminated soil is removed according to OAR 340-142 and ORS Chapter 466


For 5, work will be considered complete when:

1. Subsurface sampling (by drilling) and soil sampling are conducted according to a plan approved by Unified Command and
2. Contaminated soil and/or diesel fuel are removed under OAR 340-142 and ORS Chapters 466/468B, such that any contamination that may impact the Waters of the State is no longer recoverable or mobile.

For 6, work will be considered complete when:

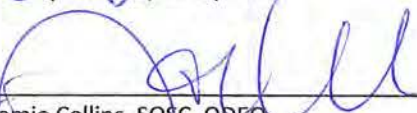
1. All contamination from the spill has been removed from Waters of the State, and future threat to Waters of the State from this spill has been eliminated.

Unified Command Approval:



Jeffrey Fowlow, FOSC, EPA

2/19/2019
Date



Jamie Collins, SOSC, ODEQ

2/19/2019
Date



Rob Honsberger, Hydrocon, RP IC

2/19/19
Date

Incident Waste Management Tracking Plan (Revised 2/19/19)

Incident Name	<u>Lindsey Lake Tanker Spill (OERS 2019-0334)</u>
Responsible Party	<u>Space Age Fuels</u>
Spilled Material	<u>No. 2 Diesel - Winter Blend</u>
Spill Location	<u>Interstate 84 - Milepost 53.8</u>
Spill Date/Time	<u>11-Feb-19</u>
Spill Source (Vessel, vehicle, etc.)	<u>Tank truck and trailer rollover in icy conditions</u>

This plan has been prepared by the Planning Section at the request of the Unified Command. All applicable state, local, and federal laws and regulations are to be followed when collecting, managing, recycling and/or disposing of the recovered materials. Wastes generated through cleanup operations will be tracked to provide an accurate means of estimating total recovery. All materials will be categorized, segregated and a determination of the regulatory status (hazardous waste versus solid waste) will be made for each waste stream. Materials will be itemized for safe and efficient collection, staging, storage, and recycling or disposal. All materials will be tracked to provide an accurate means of estimating the quantities of disposed or recycled materials and to provide documentation of final disposition.

This plan may be updated as necessary to ensure compliance with all applicable laws and regulations as new materials or waste streams are encountered, or as alternative means of disposal are needed. Once approved by Unified Command and incorporated into the Incident Action Plan, this plan will remain in force until superseded by a newer version or the cessation of response activities and completion of waste disposal activities.

At the outset of recovery operations, this plan will be used to document staging areas and waste management organization elements until information on wastes generated is obtained. The plan will be updated and expanded as waste management operations develop.

Plan Authorization

Signature

Date

Approved by EPA:

Approved by ODEQ:

Approved by Responsible Party:

Approved by Local Government Representative:

Approved by Tribal Government Representative:

Drafted and submitted for approval by:

Don Pettit, Deputy EUL

[Signature] 2/19/2019
[Signature] 2/19/2019
[Signature] 2/19/2019

Incident Waste Management Tracking Plan

Section I: Waste Management Organization

This section describes the personnel assigned and key roles staffed in the Incident Command Post within the Operations Section to support waste management and disposal. The Waste Tracking Coordinator is responsible for collecting information from the Waste Staging Area Manager(s) to provide daily updates on the quantity of wastes generated, staged, transported and disposed. The Technical Specialist is responsible for making waste determinations and designations to be used for proper waste handling and disposal.

	Name	Agency/Company
Disposal Group Supervisor	Seth Williams	NWFF
Waste Tracking Coordinator	Robert Honsberger	HydroCon LLC
Waste Management Tech Specialist	Ross McMakin	NWFF

Section II: Waste Segregation, Waste Stream Descriptions and Designations

This section describes how the wastes generated during spill cleanup operations will be categorized for segregation, waste determination and the basis for the waste determination. It is the responsibility of the Waste Management Tech Specialist to perform the waste designations for proper disposition. Copies of waste profiles and supporting laboratory analyses used to make the waste determinations shall be maintained by the Waste Tech Specialist and incorporated into the response file at the conclusion of the response.

Waste Description & Origin	Determination	Basis / HW Profile ID
<i>Example: Oiled Sorbents from On-Water Recovery in Division B</i>	<i>Non-Hazardous Solid Waste</i>	<i>Hazardous Waste Profile #1 Non-Hazardous</i>
Diesel-Impacted (Oiled) Sorbents from On-Water Recovery in Division A	Non-Hazardous Solid Waste	Knowledge of release; Source area surface water sampling
Oil Water	Non-Hazardous Liquid Waste	Knowledge of release
Oiled Solid Waste (PPE)	Non-Hazardous Solid Waste	Knowledge of release
Recovered Diesel Fuel with Water	Hazardous Liquid Waste	Knowledge of release
Diesel impacted snow (0.12% diesel by volume)	Non-Hazardous Solid Waste	Knowledge of release

Insert cells as needed for additional waste categories/descriptions. See bottom of page 4 for example waste descriptions/types.

Incident Waste Management Tracking Plan

Section III: Waste Staging Areas

This section describes the areas designated by the Operations Section Chief (or Disposal Group Supervisor) and an assigned Waste Staging Area Manager to support waste management and disposal.

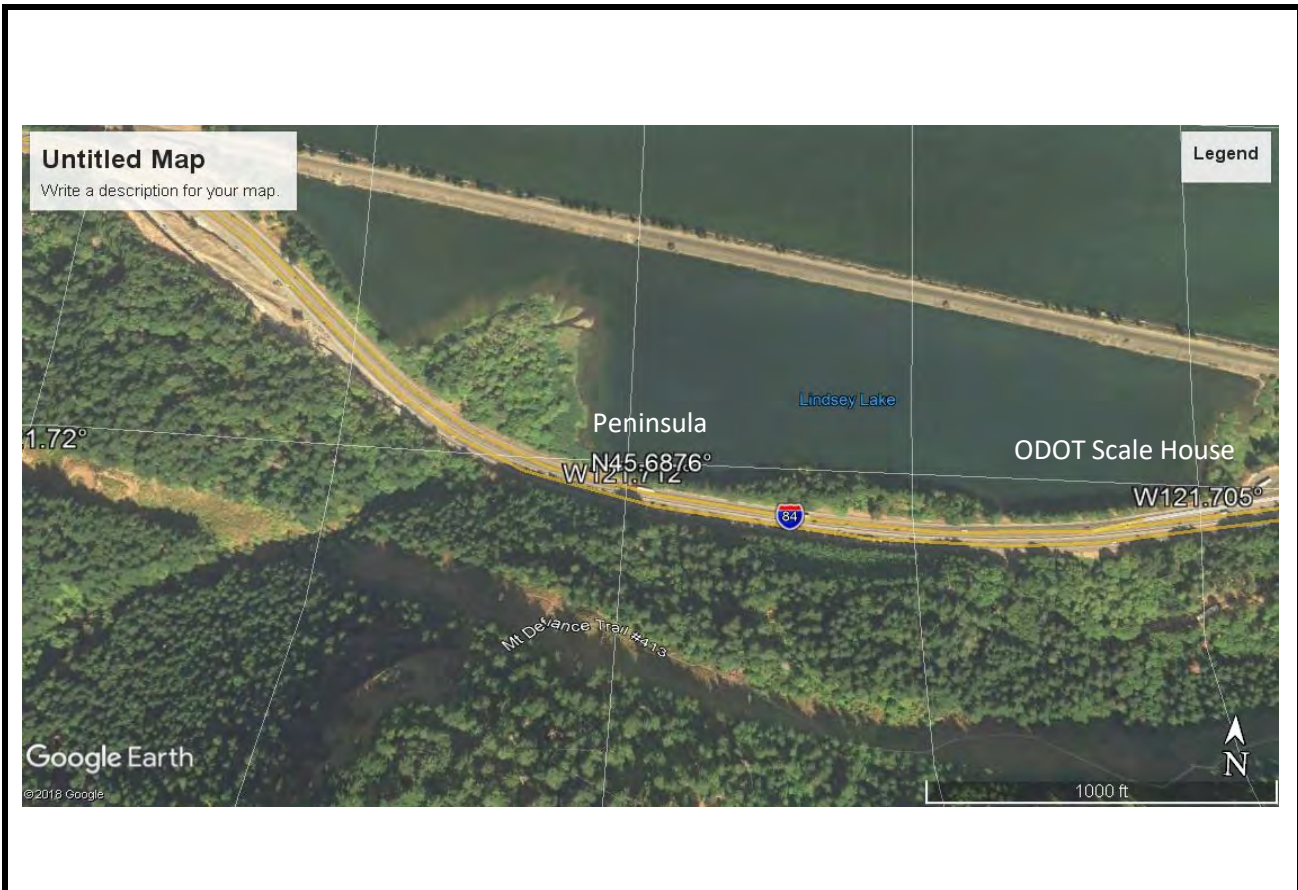
Waste Staging Area Name	Address (or Lat/Long in DecDeg)	Manager/Phone
ODOT Scale House (lot at west end of weigh station adjacent to Lindsey Lake)	Interstate I-84 W.B. @ MP 54.3 45.6877412,-121.7037323	Shiloh McConnell 541-231-2619
Wyeth State Park, I-84, Exit 51	Interstate I-84 W.B. @ MP 51 45.692014, - 121.771037	Shiloh McConnell 541-231-2619
Peninsula in Lindsey Lake	Interstate I-84 @MP 54.5 45.687679, - 121.713072	Shiloh McConnell 541-231-2619

Insert cells as needed for additional waste staging area descriptions.

Map of Waste Staging Areas



Incident Waste Management Tracking Plan



Incident Waste Management Tracking Plan

Section IV: Description of Waste Management Processes/Controls

This section describes the general processes for managing each waste stream at each Waste Staging Area. Describe how each site was constructed, bermed, covered, etc. to minimize spread of contaminants and impacts to site soils or adjacent areas. This portion of the plan will be used to guide waste management and must be updated as processes/waste streams change. Actual waste tracking will be accomplished via separate tracking spreadsheets (see Incident Waste Tracking tab on electronic version), where the waste profile for each waste stream/container will be documented.

Waste Staging Area	Tank/Box/Tote/etc.	Waste Type/Source	Site Controls
Wyeth State Park, I-84, Exit 51	22,000 gallon box (Baker tank)	Diesel Fuel with Water/Oily Water	Closed top container designed for storage of oily water
Peninsula in Lindsey Lake	1 yard box	Diesel/water saturated sorbent booms and pads; PPE	Staging area with 6 mil visquene covered with absorbent roll with bermed edges. Waste material placed in USDOT approved 1 yard containers. Any stored material will be covered in visquene over night.
Wyeth State Park, I-84, Exit 51	10CY box, 18CY tub	Diesel impacted snow (0.12% diesel by volume)	All waste loaded to be transported directly to disposal facility

Insert cells as needed for additional waste stream control descriptions.

Waste Descriptions/Types

Oily Water

Oiled Debris (woody debris, sand, etc.)

Oiled Sorbents (Oiled Solid Wastes)

Solid Waste (PPE, etc.)

Diesel impacted snow

Recovered Source Oils (Pure Product)

Recovered Oils (Product with Water)

Incident Waste Management Tracking Plan

Section V: Waste Tracking/Reporting System

The Waste Staging Area Manager will provide a manifest to the driver containing the amount and type of materials being disposed of. Each manifest will be signed upon disposal and returned to the waste tracking coordinator. Returned manifests and weigh bills will be stored in the command center with the Waste Tracking Coordinator. Amounts of each waste will be recorded and tallied on a waste tracking spreadsheet.

Waste Tracking Coordinator Responsibilities:

Wastes will be tracked throughout the response to account for generation, staging/accumulation, transfer and final disposition. The tracked wastes will be summarized daily for incorporation into ICS Form 209 (if prepared), to provide Unified Command with a summary of recovered waste volumes and any problems with the waste management system.

All copies of waste tracking forms, waste profiles used for waste determinations, and final disposition records/receipts will be maintained by the Waste Tracking Coordinator for incorporation into a Waste Management Summary Report at the conclusion of the response, unless interim reports are requested from Unified Command.

The Waste Tracking Coordinator will supply paper copies of Waste Tracking Forms for use by the Waste Staging Area Manager and establish a schedule for reporting of waste materials inventory and the transfer of all manifest copies, bills of lading, etc. (typically at the conclusion of the day's operations). The Waste Tracking Coordinator will transfer information from the paper Waste Tracking Forms into an Incident Waste Tracking Spreadsheet and convey information to the Situation Unit for incorporation into the ICS 209 Form (if prepared).

Waste Tracking Forms:

Separate Waste Tracking Forms will be used for Solid and Liquid Materials Generation, and Waste Materials Transfers to Recycling or Disposal Facilities. See attached paper forms used to track wastes at the Waste Staging Areas. The Waste Tracking Forms (and this plan template) are available in electronic format from Oregon Dept. of Environmental Quality - Emergency Response Program.

Waste Staging Area Manager Responsibilities:

Wastes generated during recovery and cleanup operations are received at the designated Waste Staging Area, directed to the proper containment (box, tank, etc.) and entered on Waste Tracking Sheet(s). The Waste Staging Manager will record the receipt of cleanup generated wastes on the Waste Tracking Forms provided by the Waste Tracking Coordinator, and provide updates/records of the wastes received, in storage, and transferred for disposition on a daily schedule established by the Waste Tracking Coordinator. The Waste Staging Manager is responsible for the proper storage during accumulation, and proper packaging and preparation of Uniform Hazardous Waste Manifests for each shipment.

Daily Inventory and Reporting Schedule:

A physical inventory will be conducted at the conclusion of daily operations and recorded on the provided Waste Tracking Forms. The Waste Tracking Forms and all receipts, bills of lading, records of manifests, etc. will be transmitted to the Waste Tracking Coordinator by beginning of the next operational period.

Submit copies of the Waste Tracking Forms, Bills of Lading, Uniform Hazardous Waste Manifests, etc. to the Waste Tracking Coordinator by the beginning of the next Operational Period. For this response, the Operational Period is 24 hours and begins at 0700.

Incident Waste Management Tracking Plan

Section VI: Designated Waste Transporters

This section designates which licensed waste transporters will be used to transport wastes from each Waste Staging Area and the destinations for each waste stream. The Waste Staging Area Manager is responsible for monitoring waste transport activities at the Waste Staging Areas, and documenting the time each transport was initiated. Actual waste transactions will be documented in the Waste Tracking Sheets designated for use by the Waste Tracking Coordinator.

Transport Company	Waste Type	Transport Type	Destination
Hood River Sanitation	Solid Waste (PPE; Oiled Sorbents)	Truck	Wasco County Landfill
NRC Environmental Services	Recovered Diesel Fuel	Vacuum Truck	Oil Re-Refining Co
NRC Environmental Services	Oily Water	Vacuum Truck	Oil Re-Refining Co
K&E Excavating	Diesel impacted snow	Tub Truck	PPV - 4927 Front Ave. Portland
K&E Excavating	Diesel impacted snow	Tub Truck	NRC - 10935 SW Clutter Rd Wilsonville, OR

Insert cells as needed for additional designated waste transporters.

Section VII: Designated Waste Disposal/Recovery Facilities

This section designates the facilities that will be used to accomplish reuse, recovery, or disposal of wastes generated during cleanup activities. This general plan identifies the various waste streams, organized by the Waste Types stored at each Waste Staging Area, the destination Facility and the type of material recovery/disposal that will occur there. This general listing will guide the disposal process, but actual waste transfers must be recorded on the Waste Tracking Sheets.

Waste Staging Area	Waste Type	Facility	Recovery/Disposal Type
Peninsula in Lindsey Lake	Oiled Sorbents	Wasco County Landfill	Solid Waste Disposal (Solid Waste Landfill)
Wyeth State Park, I-84, Exit 51	Recovered Diesel Fuel with Water; Oily Water	Oil Re-Refining Co.	Liquid Waste Disposal (Energy Recovery)
Wyeth State Park, I-84, Exit 51	Diesel impacted snow	NRC (South Yard) 10935 SW Clutter Rd. Wilsonville, OR	

Insert cells as needed for additional designated waste disposal/recovery f